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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,051	11/07/2001	Nobuyoshi Awaya	900-403	4813

7590 08/14/2002

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*(Signature)*  
EXAMINER

NGUYEN, HA T

ART UNIT	PAPER NUMBER
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2812  
DATE MAILED: 08/14/2002  
*5*

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/986,051	AWAYA, NOBUYOSHI	
	<b>Examiner</b>	<b>Art Unit</b>	
	Ha T. Nguyen	2812	

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 31 May 2002.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
  - 4a) Of the above claim(s) 6-9 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-5 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 07 November 2001 is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.
 

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Notice to Applicant***

1. Applicant's election of Group II, claims 1-5, without traverse in Paper No. 4 is acknowledged.

### ***Specification***

2. The incorporation of essential material in the specification by reference to a foreign application or patent, or to a publication is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or a practitioner representing the applicant, stating that the amendatory material consists of the same material incorporated by reference in the referencing application. See *In re Hawkins*, 486 F.2d 569, 179 USPQ 157 (CCPA 1973); *In re Hawkins*, 486 F.2d 579, 179 USPQ 163 (CCPA 1973); and *In re Hawkins*, 486 F.2d 577, 179 USPQ 167 (CCPA 1973).

### ***Claim Objections***

3. Claims 2, 4, and 5 are objected to because of the following informalities: substitution of the term "any" in lines 2, 2, and 8, respectively, with -- all -- or --a-- is suggested for clarity. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor

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and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki et al. (U. S. Patent 5824570, hereinafter “Aoki”) in view of Abe et al. (U.S. Patent 6303422, hereinafter “Abe”).

Referring to Figs. 13 and 17 and related text, Aoki discloses a semiconductor device comprising: regions for forming a plurality of functional blocks; and a region for forming wiring layers for connecting the functional blocks; wherein the region for forming the wiring layers for connecting adjacent functional blocks includes a coaxial line comprised of a signal line 1215 a ground line 1205 surrounding the signal line via an insulating film (or transmission line comprising a signal line and ground lines or power source lines formed above and below the signal line, respectively to sandwich the signal line via an insulating film). But it does not disclose expressly each of the regions for forming the functional blocks includes a multilayer wiring.

However, the missing limitation is well known in the art because Abe discloses this feature (See fig. 12 ).

A person of ordinary skill is motivated to modify Aoki with Abe to obtain more reliable connection.

Therefore, it would have been obvious to combine Aoki with Abe to obtain the invention as specified in claims 1 and 3.

5. Claims 2, 4, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki in view of Abe, as applied to claims 1 and 3 above, and further in view of Parikh (U.S. Patent 6225207).

The combined teaching of Aoki and Abe discloses substantially the limitations of claims 2, 4, and 5, as shown above.

But it does not disclose expressly wherein a bottom surface of any wiring in the multilayer wiring provided in the region for forming the functional block is on the same plane as

a bottom surface of the ground line or power source line provided in the region for forming the wiring layers for connecting the functional blocks.

However, the missing limitation is well known in the art because Parikh discloses in various embodiment the simultaneous formation of power and signal wiring for different levels including for example power line 1042 and signal line 1046 in Fig. 10D, they have bottom surface on the same plane.

A person of ordinary skill is motivated to modify Aoki and Abe with Parikh to obtain a simplified process ensuring a reduction in production cost of device made.

Therefore, it would have been obvious to combine Aoki and Abe with Parikh to obtain the invention as specified in claims 2, 4, and 5.

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ha Nguyen whose telephone number is (703)308-2706 . The examiner can normally be reached on Monday-Friday from 8:30AM to 6:00PM, except the first Friday of each bi-week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling, can be reached on (703) 308-3325. The fax phone number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.



Ha Nguyen  
Primary Examiner  
08 -09 - 02